

Title (en)  
DISTRIBUTED STORAGE SYSTEM UPGRADE MANAGEMENT METHOD AND DEVICE, AND DISTRIBUTED STORAGE SYSTEM

Title (de)  
VERTEILTES SPEICHERSYSTEM-UPGRADE-VERWALTUNGSVERFAHREN UND VORRICHTUNG UND VERTEILTES SPEICHERSYSTEM

Title (fr)  
PROCÉDÉ ET DISPOSITIF DE GESTION DE MISE À NIVEAU DE SYSTÈME DE MÉMOIRE PARTAGÉE, ET SYSTÈME DE MÉMOIRE PARTAGÉE

Publication  
**EP 3675420 A4 20201007 (EN)**

Application  
**EP 18858954 A 20180510**

Priority  
• CN 201710851312 A 20170920  
• CN 2018086299 W 20180510

Abstract (en)  
[origin: EP3675420A1] Embodiments of the present invention provide a distributed storage system upgrade management method and apparatus, and a distributed storage system, to resolve a problem of excessively low upgrade efficiency of the distributed storage system. The distributed storage system includes a plurality of nodes. Each node belongs to at least one group. The method includes: obtaining, by the scheduling node, a constraint condition of each group in the distributed storage system; determining, by the scheduling node, a first upgrade solution based on the constraint condition of each group; and sending, by the scheduling node, an upgrade instruction to the plurality of nodes in each batch according to the first upgrade solution. The constraint condition includes a maximum quantity of nodes in each group that are allowed to be upgraded in parallel. The first upgrade solution includes: grouping the plurality of nodes into at least one batch, where all nodes in each batch meet each constraint condition. The embodiments of the present invention are applicable to the distributed storage system.

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Citation (search report)  
• [I] CN 106354531 A 20170125 - HANGZHOU HUAWEI DIGITAL TECHNOLOGY CO LTD  
• [A] CN 101741894 A 20100616 - CHINA MOBILE COMM CORP  
• [A] EP 2651158 A1 20131016 - HUAWEI TECH CO LTD [CN]  
• [I] NABI MINA ET AL: "Rolling Upgrade with Dynamic Batch Size for IaaS Cloud", 2016 IEEE 9TH INTERNATIONAL CONFERENCE ON CLOUD COMPUTING (CLOUD), IEEE, 27 June 2016 (2016-06-27), pages 497 - 504, XP033047942, DOI: 10.1109/CLOUD.2016.0072  
• See references of WO 2019056771A1

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